

Serial No.: 09/455,102

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application and reflects the amendment of claims 1, 8, 23, 26 and 30; and the cancellation of claims 14-22, 33, 35-57, 63-65, 69, 72-97, 100 and 103-106 without prejudice.

Listing of claims:

1. (Currently Amended) A process for preparing an aqueous polysilicate microgel which comprises mixing (i) an aqueous solution of alkali metal silicate with (ii) an aqueous phase of silica-based material having a pH of 11 or less, which is selected from the group consisting of silica-based sols, fumed silica, silica gels, precipitated silicas, acidified solutions of alkali metal silicates and suspensions of silica-containing clays of smectite-type, and (iii) a metal salt other than an aluminum salt, wherein the metal salt is based on an alkali metal or alkaline earth metal and has an anion selected from the group consisting of hydroxide, borate, nitrate, chloride, formate and acetate.
2. (Previously Presented) The process of claim 1, wherein the metal salt is based on an alkali metal or alkaline earth metal and it has an anion, and the anion is hydroxide, borate, nitrate or acetate.
3. (Original) The process of claim 1, wherein the metal salt is a borate.
4. (Original) The process of claim 1, wherein the polysilicate microgel obtained has a molar ratio $\text{SiO}_2:\text{M}_2\text{O}$, where M is alkali metal, between 3:1 and 20:1.
5. (Original) The process of claim of claim 1, wherein the aqueous silica-based material has a pH within the range of from 7 to 11.

Serial No.: 09/455,102

6. (Original) The process of claim 1, wherein the aqueous polysilicate microgel obtained has a SiO_2 content of at least 5% by weight.

7. (Original) The process of claim 1, wherein the polysilicate microgel has a specific surface area of at least $1000 \text{ m}^2/\text{g}$.

8. (Currently Amended) Aqueous polysilicate microgel obtained by mixing (i) an aqueous solution of alkali metal silicate with (ii) an aqueous phase of silica-based material having a pH of 11 or less, which is selected from the group consisting of silica-based sols, fumed silica, silica gels, precipitated silicas, acidified solutions of alkali metal silicates and suspensions of silica-containing clays of smectite-type, and (iii) a metal salt other than an aluminum salt, wherein the metal salt is based on an alkali metal or alkaline earth metal and has an anion selected from the group consisting of hydroxide, borate, nitrate, chloride, formate and acetate.

9. (Previously Presented) The aqueous polysilicate microgel of claim 8, wherein the metal salt is based on an alkali metal or alkaline earth metal and it has an anion, and the anion is hydroxide, borate, nitrate or acetate.

10. (Original) The aqueous polysilicate microgel of claim 8, wherein the metal salt is a borate.

11. (Original) The aqueous polysilicate microgel of claim 8, wherein it has a molar ratio $\text{SiO}_2:\text{M}_2\text{O}$, where M is alkali metal, between 3:1 and 20:1.

12. (Original) The aqueous polysilicate microgel of claim 8, wherein it has a SiO_2 content of at least 5% by weight.

Serial No.: 09/455,102

13. (Original) The aqueous polysilicate microgel of claim 8, wherein the polysilicate microgel has a specific surface area of at least 1000 m²/g.

14. – 22. (Cancelled)

23. (Currently Amended) Aqueous polysilicate microgel obtained by a process of mixing (i) an aqueous solution of alkali metal silicate with (ii) an aqueous phase of silica-based material having a pH within the range of from 4.5-6.5 to 11 which is selected from the group consisting of silica-based sols, fumed silica, silica gels, precipitated silicas, acidified solutions of alkali metal silicates and suspensions of silica-containing clays of smectite-type.

24. (Previously Presented) The aqueous polysilicate microgel of claim 23, wherein the process further comprises admixing an additional salt which is a metal salt other than an aluminium salt and based on alkali metal salt or alkaline earth metal.

25. (Original) The aqueous polysilicate microgel of claim 24, wherein the salt is a borate.

26. (Currently Amended) A process for preparing an aqueous polysilicate microgel which comprises mixing (i) an aqueous solution of alkali metal silicate with (ii) an aqueous phase of silica-based material having a pH of 11 or less, which is selected from the group consisting of silica-based sols, fumed silica, silica gels, precipitated silicas, acidified solutions of alkali metal silicates and suspensions of silica-containing clays of smectite-type, and (iii) a metal salt, wherein the aqueous polysilicate microgel obtained has a molar ratio of SiO₂:M₂O, where M is alkali metal, between 3:1 and 20:1.

Serial No.: 09/455,102

27. (Original) The process of claim 26, wherein the salt is a metal salt other than an aluminium salt and based on an alkali metal or alkaline earth metal.

28. (Original) The process of claim 27, wherein the salt is a borate.

29. (Original) The process of claim 26, wherein the aqueous silica-based material has a pH within the range of from 7 to 11.

30. (Currently Amended) The process of claim 26, wherein the aqueous polysilicate microgel obtained has a SiO₂ content of at least 15% by weight.

31. (Original) The process of claim 26, wherein the polysilicate microgel has a specific surface area of at least 1000 m²/g.

32. (Original) Aqueous polysilicate microgel obtained by the process of claim 26.

33. – 57. (Cancelled)

58. (Previously Presented) The process of claim 1, wherein the aqueous polysilicate microgel prepared by the process is anionic.

59. (Previously Presented) The process of claim 1, further comprising a step of diluting the aqueous polysilicate microgel by adding an aqueous solution or suspension.

60. (Previously Presented) The aqueous polysilicate microgel of claim 8, wherein the aqueous polysilicate microgel is anionic.

Serial No.: 09/455,102

61. (Previously Presented) A drainage/dewatering aid comprising the polysilicate microgel of claim 8.

62. (Previously Presented) The aqueous polysilicate microgel of claim 8, further comprising an organic polymer.

63. – 65. (Cancelled)

66. (Previously Presented) The aqueous polysilicate microgel of claim 23, wherein the aqueous polysilicate microgel is anionic.

67. (Previously Presented) A drainage/dewatering aid comprising the polysilicate microgel of claim 23.

68. (Previously Presented) The aqueous polysilicate microgel of claim 23, further comprising an organic polymer.

69. (Cancelled)

70. (Previously Presented) The process of claim 26, wherein the aqueous polysilicate microgel prepared by the process is anionic.

71. (Previously Presented) The process of claim 26, further comprising a step of diluting the aqueous polysilicate microgel by adding an aqueous solution or suspension.

72. -97. (Cancelled)

98. (Previously Presented) The process of claim 1, wherein the aqueous solution of alkali metal silicate has a pH of at least about 13.

Serial No.: 09/455,102

99. (Previously Presented) The aqueous polysilicate microgel of claim 8, wherein the aqueous solution of alkali metal silicate has a pH of at least about 13.

100. (Cancelled)

101. (Previously Presented) The aqueous polysilicate microgel of claim 23, wherein the aqueous solution of alkali metal silicate has a pH of at least about 13.

102. (Previously Presented) The process of claim 26, wherein the aqueous solution of alkali metal silicate has a pH of at least about 13.

103. -106. (Cancelled)